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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF BITUMEN CONTENT FOR SDBC
(AS per IRC:SP:-11-1984)

Lab ID	:	**CP-2017-01-07-01**	**Date: 09-01-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli sub division, BBMP, Bangalore.	
Project Name	:	Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.	
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32.	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	07-01-17	
Sample ID No	:	2017-01-07-01/01(a)	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	07-01-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	501
2	Weight of the sample After extraction	B	476	477
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.80	4.79
4	Average percentage	%	4.80	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Prepared By:
Harshitha

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Quality Manager

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Lab ID : **CP-2017-01-07-01** **Date: 09-01-17**

AFTER EXTRACTION (Trail-1)

Oven Dry Weight(gm) : 476

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	100.0	100
9.5	19	19	96.0	90-100
4.75	250	269	43.5	35-51
2.36	76	345	27.5	24-39
1.18	33	378	20.6	15-30
0.3	53	431	9.5	9-19
0.075	17	448	5.9	3-8
PAN	28	476	0.0	0

AFTER EXTRACTION (Trail-2)

Oven Dry Weight(gm) : 477

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	100.0	100
9.5	27	27	94.3	90-100
4.75	225	252	47.2	35-51
2.36	81	333	30.2	24-39
1.18	45	378	20.8	15-30
0.3	53	431	9.6	9-19
0.075	21	452	5.2	3-8
PAN	25	477	0.0	0

Note:-

The results pertain to the samples received and tested.
All Information Furnished by the customer/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer
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Prepared By:
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TEST RESULTS OF BITUMEN CONTENT FOR SDBC
(AS per IRC:SP:-11-1984)

Lab ID	:	**CP-2017-01-07-01**	**Date: 09-01-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli sub division, BBMP, Bangalore.	
Project Name	:	Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.	
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32.	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	07-01-17	
Sample ID No	:	2017-01-07-01/01(b)	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	07-01-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	503	500
2	Weight of the sample After extraction	B	478	477
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.97	4.60
4	Average percentage	%	4.79	

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Quality Manager

AE(nd)

Lab ID : **CP-2017-01-07-01** **Date: 09-01-17**

AFTER EXTRACTION (Trail-1)

Oven Dry Weight(gm) : 478

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	100.0	100
9.5	21	21	95.6	90-100
4.75	261	282	41.0	35-51
2.36	68	350	26.8	24-39
1.18	32	382	20.1	15-30
0.3	43	425	11.1	9-19
0.075	16	441	7.7	3-8
PAN	37	478	0.0	0

AFTER EXTRACTION (Trail-2)

Oven Dry Weight(gm) : 477

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	100.0	100
9.5	26	26	94.5	90-100
4.75	225	251	47.4	35-51
2.36	82	333	30.2	24-39
1.18	46	379	20.5	15-30
0.3	54	433	9.2	9-19
0.075	22	455	4.6	3-8
PAN	22	477	0.0	0

Note:-

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Page2/2
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AE(Civil)

TEST RESULTS OF BITUMEN CONTENT FOR SDBC
(AS per IRC:SP:-11-1984)

Lab ID	:	**CP-2017-01-06-01**	**Date: 07-01-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli sub division, BBMP, Bangalore.	
Project Name	:	Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.	
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32.	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	06-01-17	
Sample ID No	:	2017-01-06-01/01(b)	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	06-01-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	504	504
2	Weight of the sample After extraction	B	479	480
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.96	4.76
4	Average percentage	%	4.86	

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Prepared By:
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AE(W7)

Lab ID : **CP-2017-01-06-01** **Date: 07-01-17**

AFTER EXTRACTION (Trail-1)

Oven Dry Weight(gm) : 479

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	100.0	100
9.5	31	31	93.5	90-100
4.75	213	244	49.1	35-51
2.36	63	307	35.9	24-39
1.18	39	346	27.8	15-30
0.3	71	417	12.9	9-19
0.075	34	451	5.8	3-8
PAN	27	478	0.2	0

AFTER EXTRACTION (Trail-2)

Oven Dry Weight(gm) : 476

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	100.0	100
9.5	30	30	93.7	90-100
4.75	212	242	49.2	35-51
2.36	72	314	34.0	24-39
1.18	51	365	23.3	15-30
0.3	59	424	10.9	9-19
0.075	32	456	4.2	3-8
PAN	20	476	0.0	0

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Samples will be disposed after 30 days from the date of issue of test certificate

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End of Report

TEST RESULTS OF BITUMEN CONTENT FOR SDBC
(AS per IRC:SP:-11-1984)

Lab ID	:	**CP-2017-01-06-01**	**Date: 07-01-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli sub division, BBMP, Bangalore.	
Project Name	:	Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.	
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32.	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	06-01-17	
Sample ID No	:	2017-01-06-01/01(a)	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	06-01-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	502	501
2	Weight of the sample After extraction	B	478	477
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.78	4.79
4	Average percentage	%	4.79	

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Lab ID : **CP-2017-01-06-01** **Date: 07-01-17**

AFTER EXTRACTION (Trail-1)

Oven Dry Weight(gm) : 478

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	100.0	100
9.5	31	31	93.5	90-100
4.75	213	244	49.0	35-51
2.36	63	307	35.8	24-39
1.18	39	346	27.6	15-30
0.3	71	417	12.8	9-19
0.075	34	451	5.6	3-8
PAN	27	478	0.0	0

AFTER EXTRACTION (Trail-2)

Oven Dry Weight(gm) : 478

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	100.0	100
9.5	29	29	93.9	90-100
4.75	215	244	49.0	35-51
2.36	62	306	36.0	24-39
1.18	41	347	27.4	15-30
0.3	66	413	13.6	9-19
0.075	32	445	6.9	3-8
PAN	33	478	0.0	0

Note:-

The results pertain to the samples received and tested.
All Information Furnished by the customer/Representative
Any correction in the report will make this report invalid.
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Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer,
Kodigehalli Sub Division,
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Bangalore.

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-2016-12-30-01** **Date: 02-01-2017**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli sub division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Laxmi NarayanaTemple area Amruthahalli In Ward No 07, Kodigehalli Sub Division.
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32
Source of Sample	:	Sample supplied by the customer
Sample Condition	:	Satisfactory
Date of Receipt	:	30-12-2016
Sample ID No	:	2016-12-30-01-01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	31-12-2016

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**88.5**	80 to 100
2	Softening Point, °C	**44.3°C**	Min. 40°C
3	Ductility, cm	**80 cm**	Min. 75cm
4	Flash point, °C	**240°C**	Min. 220°C
	Fire point, °C	**306°C**	

Note:
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All information furnished by the Customer/ Representative.
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

Prepared by
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-2017-01-05-01** **Date: 07-01-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli sub division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-01-17
Sample ID No	:	2017-01-05-01/01 (a)
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	05-01-17
Oven Dry Weight(gm)	:	11750

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	209	209	1.78	98.2	95-100
22.4	3098	3307	28.14	71.9	60-80
11.2	3500	6807	57.93	42.1	40-60
4.75	1809	8616	73.33	26.7	25-40
2.36	1154	9770	83.15	16.9	15-30
0.6	680	10450	88.94	11.1	8-22
0.075	681	11131	94.73	5.3	0-8

Note:-

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Prepared By:
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AE(Wzl)

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-2017-01-05-01** **Date: 07-01-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli sub division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-01-17
Sample ID No	:	2017-01-05-01/01 (b)
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	05-01-17
Oven Dry Weight(gm)	:	10400

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	179	179	1.72	98.3	95-100
22.4	3198	3377	32.47	67.5	60-80
11.2	2672	6049	58.16	41.8	40-60
4.75	1209	7258	69.79	30.2	25-40
2.36	1154	8412	80.88	19.1	15-30
0.6	520	8932	85.88	14.1	8-22
0.075	675	9607	92.38	7.6	0-8

Note:-

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-2017-01-05-01**	**Date:**	**07-01-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.		
Address	:	Kodigehalli sub division, BBMP, Bangalore.		
Project Name	:	Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.		
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32.		
Source of Sample	:	Sample supplied by Agency		
Sample Condition	:	Satisfactory		
Date of Receipt	:	05-01-17		
Sample ID No	:	2017-01-05-01/01		
Type of Mix	:	WMM (Wet Mix Macadam)		
Date of test	:	05-01-17		

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	306.2	305.9
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	60.9	61.4
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	244.9	244.3
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.3
5	Aggregate impact value	(B/A)*100	19.9	20.1
6	Aggregate impact value (Mean of two tests)	Pecentage	20.0	

Note:-
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Assistant Executive Engineer
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Prepared By:
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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-2017-01-05-01**	**Date: 07-01-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli sub division, BBMP, Bangalore.	
Project Name	:	Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.	
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	05-01-17	
Sample ID No	:	2017-01-05-01/01	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	05-01-17	

Result:

Flakiness Index	11.1%
Elongation Index	13.2%
Combined Flakiness & Elongation Index for BC	24.3%

Comments:

Maximum allowable Flakiness & Elongation Index For BC is 30 %

Note:-

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Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka, Bangalore.

Prepared By: Harshitha M.P.,

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FOR CIVIL Pro.

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-2016-12-30-01**	**Date:**	**05-01-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.		
Address	:	Kodigehalli sub division, BBMP, Bangalore.		
Project Name	:	Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.		
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32.		
Source of Sample	:	Sample supplied by Agency		
Sample Condition	:	Satisfactory		
Date of Receipt	:	30/12/2016		
Sample ID No	:	2016-12-30-01/01		
Type of Mix	:	WMM (Wet Mix Macadam)		
Date of test	:	30/12/2016		

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	311.6	310.9
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	69.6	68.4
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	241.6	242.3
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.3
5	Aggregate impact value	(B/A)*100	22.3	22.0
6	Aggregate impact value (Mean of two tests)	Pecentage	22.2	

Note:-

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Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore

Prepared By:
Harshitha

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-2016-12-30-01** **Date: 05-01-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli sub division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30/12/2016
Sample ID No	:	2016-12-30-01/01 (a)
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	30/12/2016
Oven Dry Weight(gm)	:	10900

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	210	210	1.93	98.1	95-100
22.4	3098	3308	30.35	69.7	60-80
11.2	3172	6480	59.45	40.6	40-60
4.75	1509	7989	73.29	26.7	25-40
2.36	1154	9143	83.88	16.1	15-30
0.6	720	9863	90.49	9.5	8-22
0.075	691	10554	96.83	3.2	0-8

Note:-

The results pertain to the samples received and tested.

All Information Furnished by the customer/Representative

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-2016-12-30-01** **Date: 05-01-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli sub division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30/12/2016
Sample ID No	:	2016-12-30-01/01 (b)
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	30/12/2016
Oven Dry Weight(gm)	:	11850

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	196	196	1.65	98.3	95-100
22.4	3098	3294	27.80	72.2	60-80
11.2	3372	6666	56.25	43.7	40-60
4.75	1809	8475	71.52	28.5	25-40
2.36	1154	9629	81.26	18.7	15-30
0.6	720	10349	87.33	12.7	8-22
0.075	691	11040	93.16	6.8	0-8

Note:-

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Hanka Zone, B.B.M.P.,
Bangalore.

Prepared By:
Harshitha

AE (Wrks)

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-2016-12-30-01**	**Date: 01-05-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli sub division, BBMP, Bangalore.	
Project Name	:	Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.	
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	30/12/2016	
Sample ID No	:	2016-12-30-01/01	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	30/12/2016	

Result:

Flakiness Index	11.9%
Elongation Index	12.6%
Combined Flakiness & Elongation Index for BC	24.5%

Comments:

Maximum allowable Flakiness & Elongation Index For BC is 30 %

Note:-

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Assistant Executive Engineer, Kodigehalli Sub Division, B.B.M.P., Yelahanka Zone, Bangalore.

Prepared By:
Harshitha

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-2016-12-22-01**	**Date: 27/12/16**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli sub division, BBMP, Bangalore.	
Project Name	:	Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.	
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	22/12/2016	
Sample ID No	:	2016-12-22-01/01	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	22/12/2016	

Result:

Flakiness Index	11.6%
Elongation Index	12.2%
Combined Flakiness & Elongation Index for BC	23.8%

Comments:

Maximum allowable Flakiness & Elongation Index For BC is 30 %

Note:-

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Prepared By:
Harshitha

Assistant Executive Engineer, Kodigehalli Sub Div., B.B.M.P., Yelahanka, Bangalore.

AE(WT)

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-2016-12-22-01**	**Date: 27/12/2016**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli sub division, BBMP, Bangalore.	
Project Name	:	Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.	
Agency	:	Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32.	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	22/12/2016	
Sample ID No	:	2016-12-22-01/01	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	22/12/2016	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	310.2	309.9
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	67.9	67
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	241.8	242.3
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.6
5	Aggregate impact value	(B/A)*100	21.9	21.6
6	Aggregate impact value (Mean of two tests)	Pecentage	21.8	

Note:-

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Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

Prepared By:
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2016-12-05-01-03** **Date: 09/12/2016**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli sub division, BBMP, Bangalore.

Project Name : Improvements to Road and Drain Laxmi Narayana Temple area Amruthahalli in Ward No 07, Kodigehalli Sub Division.

Agency Ninganagowda V. Patil, #57/7, Sri Krishna nilaya 2nd Main, Ganganagra, RT Nagara(P), Bangalore-32.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-11-16

Sample ID No : 2016-12-05-01-03

Sample Type : Birla super 53 grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Date of testing : 10-11-2016 to 8-12-2016

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving	3.81%	–
2	Finess by Air permeablity method	284.5m^2/kg	225m^2/kg, Min
3	Density	3.50 g/cc	gm/cc
4	Specific Gravity	3.19	–
5	Standard Consistency	28.0%	Not specified
6	Initial Setting time	270 minutes	Not less than 30 minutes

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